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FREE THOUGHTS
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UPONTHE

BRUTE-CREATION: OR, A N

## EXAMINATION

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## FREE THOUGHTS

## UPONTHE

## BRUTE-CREATION:

 OR, A N
# EXAMINATION 

O F
Father BOUGEANT's
Pbilofopbical Amufement, \&c.
In Two LETTERS to a Lady.
Job xii. 7, 8, 9, IO. But ask now the beafts, and they Ball teach thee; and the forols of the air, and they fall tell thee.
Or speak to the earth, and it Joall teach thee; and the fighes of the Sea Joall declare unto tbee.
Who knoweth not in all thefe, that the band of the Lord bath wrought this?
In whofe band is the foul of every living thing, and the breath (Spirit) of all mankind.

By $7 O H N H I L D R O P, ~ M . ~ A . ~$
Rector of Wath, near Rippon in Yorkbire: And Chaplain to the Right Honourable Cbarles Earl of Ailesbury and Elgin.

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L O N D O N:
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Printed for R. Minors, Bookfeller and Stationer, in St. Clement's Church-yard. M.DCC.XLII.


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## FREE THOUGHTS

UPONTHE

## BRUTE-GREATION:

O R,
An Examination of Father BOUGEANT"s Pbilofopbical Amufernent, \&cc.

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\mathrm{MADAM}_{\mathrm{A}}
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IDARE fay you have made many a merry Reflection upon the good Company and Converfation we lately enjoyed at $B$-ton: for my own part, I can never think of it without laughing. Methinks I hear my little Doctor pouring forth all his Rhetoric and Logic upon an abftrufe Queftion, which I was fure he had not Capacity enough to underitand. I fee, and hear, and admire his modeft Affurance, uncapable of Contradiction, affirming without Proof, and concluding without Premifes, that all the Animal Functions and Operations

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of the Brute-Creation (which different Philofophers had afcribed to different Caufes, fuch as Mechanifm, Inftinct, Subftantial Forms, Éc.) were entirely owing to the Operation of evil Spirits, who are the moving Principle in every one of them. As this Thought was quite new to me, and perfectly oppofite to all the Sentiments I had ever entertained upon that Queftion, I could not for my life imagine, where he had pick'd up this new Philofophy, which had almoft frighted fome of the Company out of their Senfes.-I hall never forget the puzzled aflicted Face of the honeft Juftice, who, tho' a very good Proteftant, and in all other refpects of blamelefs Life and Converfation, had fpent fo many Years in following a Pack of Devils, which he had innocently miftaken for a Pack of harmlefs Beagles.-But the whimfical Diftreffes of the poor Ladies, gave me no fmall Diverfon. Sweet Mifs Jenny, who has lavifh'd away more Kiffes upon her favourite Cat, than fhe would beftow upon the beft Man in the Parifh, felt fome compunction within herfelf, that fhe had been wantonly, and almoft malicioufly, throwing away thofe Carefles upon an evil Spirit, which many a good Chriftian would have been glad of. Dear Mifs Harriot had the fame regret for her beloved Monkey, and poor Dolly for her Parrot ; and refolved, one-and-ill, never to hold commerce or correfpondence with evil Spirits for the future, in whatever amiable Shape or Figure they might appear; which, I apprehended, could end in nothing
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lefs than an intire deftruction of all the favourite Domefticks of the Family ; whilf you, with a chearful compofure of Mind and Countenance, infeparable from good Nature and good Senfe, fat fmiling at the empty Harangue of the Orator, and the fantaftical Sufferings of the Audience.

Well! home I went, full of this abfurd, unphilofophical Scheme, wondering how my learned Friend, who, with very moderate Talents, affects to be thought a very great Scholar, and profound Philofopher, could ever fall into this uncommon way of thinking. But as I chanced a few days after to frole into a Bookfeller's Shop, I fpyed a little Pamphlet lying upon the Counter, entitled, A Pbilofopbical Amufement, concerning the Language of Birds and Beafts. Written originally in French by Father Bougeant, a learned $\mathcal{F}$ ffuit, \&cc. I quickly perceived where my learned Friend had pick'd up his new Philofophy, from what Fountain all this profound Erudition was drawn. The honef Man has a very prepofterous Ambition to be famous; and as he is confcious that he has no chance to attain any degree of Diftinction from the proper and regular ufe of his inteliectual Faculties, he therefore attempts a nearer cut to Fame, by engaging the Attention of the Unlearned to fomething that has a new and marvellous Appearance: This has given him an itch after Novelty, and an affection for uncommon Notions, more than common Senfe. No woider, therefore, he was immediately fruck

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with this furprizing Sentiment, which he refolved to put off at the next Tea-table for his own, affuring himfelf, that neither the Ladies, nor myfelf, (whofe Obfcurity he heartily defpifes) fhould ever find him out, but admire him for a moft profound Philofopher. I took my Pamphlet home with me, and read it over and over, with the greateft Care and Candour ; and upon the whole muft needs fay, that I fhould never have fufpected the Author (if he had not told us fo himfelf) to be a Fefuit, much lefs a Famous $\mathcal{F e}$ efuit. He has done no credit to his Order ; the Gentlemen of that Society owe him but little Thanks; they generally acquit themfelves much better upon any Subject they undertake. He has treated a noble Subject loofely and fuperficially, to fay no worfe; for I might add, idly and profanely; and had I been his proper Superiour, I fhould have changed his Confinement at La Fleche, for a more proper Habitation at Moorfields.

But this. (fay you) is libelling without Proof, condemning at random : Let us come to Particulars; make good your Charge, fhew us, if you can, the Defects of his Scheme, and try if you can ftrike us out a better.

With all my heart, Madam. But before I proceed to a more particular Examination of his Scheme, I muft freely acknowledge, that there are a great many juft and fprightly things fcattered up and down through his whole Performance ; but favouring more of the vivacity of the Frenchman, than the piety and folidity of a Chri-

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ftian Philofopher. He juftly and fmartly ridicules the unintelligible trumpery of Mechanifm, Inftinct, Subftantial Forms, and what not of the Arifotelian and Cartefian Philofophy, which, like occult qualities, are hard Words without a Meaning, intended only as a thin difguife for Ignorance and Affectation : But what has headvanced in the room of them? Why, fomething equally abfurd, but not equally innocent ; fomething fhocking to a Philofopher, and offenfive to a Chriftian, in direct contradiction to Reafon and Revelation, as I fhall endeavour to make appear. Nor is he lefs offenfive in point of Delicacy, his Ideas and Sentiments are often fo low, his Images fo indecent, his Expreffions fo coarfe, as could hardly be expected from a polite French,man, and an Ecclefiaftic to a fine Lady, whom, at the fame time, he feems to confider as a Perfon of Difcernment and Diftinction. Let us now follow him his own way. His firft Chapter is

## Of the Underftanding of Brutes.

He begins with this Queftion; Have Brutes any Underftanding? I am convinced (fays he) that you will not fo much as befitate upon this Queftion: farely prefuming fhe would anfwer in the Affirmative, and as I dare venture to affirm that his fair. Correfpondent had not a better Underftanding than mine, I will venture to prefume the fame for you. An Underfanding they certainly have of fuch a kind or degree, at leait as is fufficient for their ftate and rank in the
univerfal Syftem, and the feveral duties and offices for which they were intended by their Creator. Lefs than this I think cannot be faid, and who prefumes to fay more? Though I have known many an honeft Fellow that made a good figure in his Neighbourhood, who yet has hardly difcovered more Reafon, a better Underftanding, or half fo much Virtue as the Beaft he rode on. Take any Man of a plain, natural good Underftanding without the prejudices of Philofophy, and propofe the fame Queftion to him : I dare fay he would flare at you, and think you were bantering him; or if he thought you were in earneft, he would not fo much as demur upon it. In fhort, however we may affect to puzzle ourfelves or others with learned Objections proceeding from downright Ignorance, we all own it, we prefume upon it, as a firtt Principle, we reafon upon it, and act agreeably, as we make it an unerring Rule to direct us in the Treatment and Management of our domeftick Animals; this it is that guides us in the education of our Dogs and Horfes, to train them up by Correction and Difcipline to the feveral Offices for which they are intended, and the Services which we expect to receive from them. This it is that directs us to carefs and reward them when they do well, and to correct and punifh them, when they are vicious and difobedient. Did we confider them as meer Machines, as Creatures that had no Senfe, Underfanding, or Reffection; this Conduct would be as abfurd and ridiculous, as it would be to

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carefs and reward your Clock or your Watch for going well, or correct and punifh them with a Whip or Cudgel for going wrong. On the other hand, we difcover in Brutes plain and evident marks of Senfe and Underftanding. They are fenfible what we do to them, and what they do to us. When for inftance I fee a Dog haftening to me when I call him, carefs me when I ftroke him, tremble when I rate him, run away from me when I beat him: nay, further, when I fee him reflecting and reafoning upon my Conduct towards him, I muft conclude he is acted by fome higher Principle than meer Mechanifm. Be pleafed, Madam, to try this Experiment with your beloved $V$ eny, (though upon fecond Thoughts he has been too much and too long a Favourite to a apprehend any danger from your Hands,) or call any other Dog of the Family, whofe Hunger may make him leap at a good Morfel, fhew him a Piece of Meat in your Left Hand, and hide your Right Hand behind you, and fee how he will behave ; efpecially, if he knows he has been guilty of a Fault, or been rated or punifhed for fome Mifdemeanour. He will either not come near you at all, unlefs urged by the violence of his Hunger, or approach you with the utmoor Diffidence and Caution: for thus I hear him reafoning with himfelf; Surely, this is not the Hand that ufed to feed me, and wolly is that otber Hand hid from me? That Hand, from wobich I bave received many a fore Stripe, wwben I bave offended, bas now, I fear, fome fecret Vengeance, Jome Whip, or

Gudgel in fore for me, if 1 get within the reach of it; I rwill therefore prefer the Dog's Portion of Hunger and Eafe, before Lafles and Stripes, and broken Bones. Ay! and he is much in the right, he reafons well, and difcovers more Senfe and better Logic than many a ftupid Puppy with two Legs, who lives at random, who purfues every appearance of Pleafure, gratifies every Appetite, fubmits to every demand of Luft or Fancy, without Thought or Reflection, and rufhes with his Eyes open into certain Difeafes, Beggary and Damnation. Now then if the Senfes and Perceptions of Brutes be fo quick and lively, if from thofe Perceptions they never fail to draw juft and rational Conclufions, and to make a practical Ufe of them for the preventing Pain, or procuring Pleafure, if by the different Motions and Geftures of their Bodies, or Sound of their Voice, they exprefs their different Sentiments of Joy and Sadnefs, of Pain or Pleafure, of Fear and Defire, of Love or Hatred; I cannot help concluding from thence, that they have in them fome Principle of Knowledge and Sentiment, be it what it will. Now, were all the Philofophers in the world to affert and maintain the Cartefian Opinion of their being Machines, there is fome ftrong inward Conviction in every fenfible unprejudiced Mind that gives them the lye, tho' we were not able to confute their Affertion, nor defend our own; and furely nothing but the Vanity of a Frencloman could ever expect that fo abfurd a Scheme could pafs upon a learned World for found Reafon and true Philofophy.

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For my own part, I could as foon expect to fee Gallantries between a couple of amorous Clocks or Watches, or a Battle betwixt two quarrelfome Windmills.

The Notion of Infinct, though not fo palpably abfurd, is equally obfcure, unneceffary, and ufelefs for all the great ends and purpofes which it is intended to ferve. They who ufe it, do not pretend to define it, to fhew usits real Nature, or wherein it confifts, they feem only to fpeak of it as a blind Impetus, and unknown Impulfe; a kind of Mechanical Neceffity, by which we are in a manner compelled to perform fuch and fuch Actions, without being able to know or explain the Reafons for fo doing. By this, they pretend to account for many wonderful Operations and Effects in the almoft infinite Variety of Species through the Brute-Creation, fuch as, for inftance, all forts of Birds building their Nefts in exact uniformity of Model and with the fame Materials, all the various Methods of Cure that both Birds and Beafts have recourfe to when they are any ways indifpofed or wounded ; this it is, they fay, that teaches the Sparrows to purge themfelves with Spiders and other Infects; this teaches Birds to fwallow Gravel to facilitate their Digeftion; this teaches the Dog with a furfeited Stomach to run to a particular kind of Grafs to procure a Vomit ; to this we owe all the excellent and wonderful Operations to be found among Beafts and Birds, Reptiles and Infects; many of which hem to exceed the

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higheft Improvements of human Reafon and Invention. But why muft all this be owing to Inftinct? Since we cannot refufe them a knowing Faculty, why fhould we give them a needlefs Inftinct? Thefe wonderful Operations may be, for ought we know, the fimple Effects of their Underftanding: and fince it is folely in confequence of a knowing Faculty, that Man performs the fame Operations, why fhould not the fame Principle alfo rule in the Brutes? And where would be the Herefy of believing or affirming, that thofe Actions which Brutes are fuppofed to perform by meer Inftinct, are performed in confequence of their Underftandings, with Underftanding and Reafon? Is fuch a thing impoffible? Does either Reafon or Revelation forbid it? Are they not equally poffible to their Omnipotent Creator? And can any reafonable Doubt be made, whether they were not endued with every Perfection that their Rank in the Scale of Beings required ? And would it not be a great Imperfection to want the means of knowing and procuring whatever was requifite in the common Order of Nature, for the Prefervation of the Individuals and the Propagation of the Species? And fince it cannot be denied that every Species of Beings have that power, I fee nothing abfurd or unphilofophical in fuppofing, that the All-wife and Omnipotent Author of Nature has given each of them fuch Faculties as are proportionable to their Wants and Capacities, and the part they fill in the univerfal Syftem. Is there either Abfurdity or Herefy in fuppofing, that the fame

## ( II )

fame infinite Power that could form the Body of the moft minute Infect, with fuch exquifite Proportion and Beauty, could at the fame time, with the fame eafe, provide a proper Inhabitant to animate and govern it, and anfwer all the purpofes of its Creation? He that can think otherwife, muft have been either a very ignorant or a very indolent Obferver of Nature. The Scriptures directly call this Knowledge by the name of Wi fdom, Prov. xxx. 24. There be four Things that are little upon Earth, but they are exceeding reije. The Ants are a People not frong, yet they prepare their Meat in the Summer. The Conies are but a feeble Folk, yet they make their Houfes in the Rocks. The Locuft bave no King, yet go they forth all of them by Bands. The Spider taketh bold with ber Hands, and is in King's Palaces. Holy $7 o b$ fuppofes the fame thing, that the whole Brute-Creation act by Wifdom and Underftanding, of fuch a Kind and Degree as is proper for their State and Condition in the Scale of Beings. Thus Cb. xxxix. 13, 14, 15, 16, 17. fpeaking of the Ofrich, he obferves, that fie leaves her Eggs in the Earth, and warms them in the Duft, and forgets that the Foot may crufb them, or that the wild Beaft may break then. She is bardened againft ber young ones, as though they were not bers, ber labour is in vain without fear, becaule God bath deprived ber of Widdom, neither bath be imparted to ber Underftanding. The Fact is afferted by all Travellers, that the Oitrich leaves her Eggs in the Sand to be hatch'd by
the Sun, which unnatural difregard for her Offfpring is fo remarkable, that when they fee a Mother who has little Tendernefs for her Children, they compare her to an Oftrich; to which the Prophet Feremiab alludes in his Book of Lamentations, ch. iv. 3. The Daughter of my Pcople is become cruel, like the Oftricbes in the Wilderne $/ 5$. In fhort, the Oftrich is allowed, on all hands, to be a very ftupid foolifh Bird, deftitute of that Prudence and Caution which are vifible in every other Family of Infects, Birds, and Beafts ; for it is particularly obferved in her, that when fhe is purfued by the Hunters, fhe runs to hide her Head, and particularly her Eyes behind a Tree, all the reft of her large Body is expofed to view; but as the no longer fees the Hunter, fhe wifely imagines he does not fee her, and that therefore the has no danger to apprehend. Now this whole abfurd and ridiculous Conduct, the infpired Writer afcribes to her want of that Wifitom, Underftanding and common Senfe, which are to be found in every other Species of Beings; for the Production and Prefervation of their feveral Families. Becaufe God batb deprived ber of Wifdom, neitber bath be imparted to ber Underfanding, v. 17. Were we now to extend our Enquiries to the Polity, Architecture, and Oeconomy of Bees and Wafps, and all the other Tribes and Families of Infects, we fhould find them in many refpects excellent Monitors to the Bulk of Mankind. "* The Beehive, for inftance, is a School to

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" which numbers of People ought to be fent. "Prudence, Induftry, and Benevolence, pub" lick Spirit, and Diligence, Oeconomy, Neat" nefs, and Temperance, are not only practifed " by them in the moft exemplary manner, but ftrongly recommended to us by their Example. Lcok on a Swarm of Bees, and obferve the Difpofition that influences every Individual ; they all labour for the general Advantage; they are all fubmiffive to the Laws "s and Regulations of the Community ; there " is no particular Intereft, and confequently " no Emulations nor Competitions for Gain or " Glory ; no Diftinctions, but thofe which Na" ture and the Neceflities of the Family have " introduced among them. We never fee them " diffatisfied with their Condition, or inclinable " to abandon the Hive, in Difguft to find them"felves Slaves or Neceffitous. On the contrary, " they think themfelves in perfect Freedom, " and perfect Affluence, as indeed they are: "they are free, becaufe they depend only upon " the Laws; they are happy, becaufe the Con"courfe of their feveral Labours inevitably pro' duce an Abundance, that conftitutes the Riches of each Individual. Let us compare Human "Societies with this, and they will appear al' together monftrous. Neceffity, Reafon, and Philofophy, have eftablifhed them under the "commendable Pretence of mutual Aids and "Benefits; but a Spirit of Selfifhnefs deftroys "s all ; and one half of Mankind, to load them-"- felves with Superfluities, leave the other half

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"d deftitute of the common Neceffaries of Life." In fhort, upon the ftricteft and clofeft Enquiry we can make into the feveral Tribes of Families of the Brute-Creation, it will appear, that they are all directed and act by fome Principle analogous at leaft, and equivalent to what we call Underftanding in ourfelves; and why we fhould call it by any other Name in them, I confels I am at a lofs to determine. If then the feveral Species of Brutes do by the Strength of their own Underftandings, think, reafon, project, contrive, and perform every Office within their proper Sphere of Life and Action in ajuft and due proportion to what we do in ours, they muft be allowed to have fome immaterial Principle within them, in which there Faculties are inherent, and by which they are directed. Now, to my poor Apprehenfion, Underftanding without a Soul, and a Soul that is not a Spirit, appears quite as abfurd as Light without Flame, or Flame without Fire ; the one I think naturally fuppofes and includes the other.

The Great Mr. Locke, in his Effay on Human Underftanding, lib. 2. cap. II. allows that Brutes have Ideas, and that they reafon, tho' they are not capable of comparing and comprehending thefe Ideas, and reafoning abftractedly, as we do. Yet (fays he) if they bave any Ideas at all, and are not sere Macbines, as fome would bave them, we can't deny them to bave fome Reafon. It jeems to me as evidint, that they do in fome inftances reajon, as that they bave Senfe; but it is only in par-

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ticular Ideas, juft as they received thein from their Senfes. - Juft as they received them from their Senfes!-Why, how fhould it be elfe? What is the Foundation of our Reafon, but thofe particular Ideas we receive from our Senfes? Ideas are Images, excited or impreffed upon the Soul by external Objects, thro' the Mediation of the Senfes; and the enlarging, comparing, and combining thefe Ideas, and forming practical Conclufions from them, is the whole Province of Human Reafon. This philofophical Limitation of the Underftanding of Brutes, founds a little aukwardly from this great Man, becaufe he has allowed the moft exalted $\mathrm{Hu}-$ man Underftanding no better Materials to work upon. He has very juftly exploded the Notion of innate Ideas, and has by confequence left us nothing but thofe which we receive by Senfation, to be the Ground-work of our moft refined Speculations. Why then will he not allow the fame uniform Effect to be produced by the fame uniform Caufe in both? Why does he take fo much pains to perfuade himfelf and us, that Rationality in Brutes muft proceed from a quite different Caufe, from what it does in ourfelves? What is he afraid of ? What would be the terrible Confequences of fuch a Conceffion? For my own part, I think I fee none, but what your own excellent Underftanding will, with a little Recollection, eafily evade, without the leaft violence either to Reafon or Revelation. He concedes, indeed, to the main Point, and allows, the Rationality of

Brutes ;

Brutes; but, for fear of allowing them immatrial, and confequently immortal Souls, he frequently infinuates, that Thought, Rationality, or Reflection, is not the abfolute Privilege of immaterial Beings, but may be communicated by the Power of God to certain Portions of Matter, differently modified, and confequently that Matter exalted to a certain degree of Purity, may be as capable of Reafon and Reflection, as an immaterial Spirit. And in hisDifpute with the Bishop of Worcefler, who juftly charged him with this unphilofophical Notion, he was reduce to a neceflity of afferting it in plain and express Terms, and of putting all his Philofophy to the utmost ftretch, to reconcile it to Reafon and common Senfe ; which, I humbly conceive, is absolutely impoffible. Yet he frequently and directly afferts the Poffibility of Thinking Matter, allowing to his material Animal Sente, Perception, Reafon, fpontaneous Motion or Volition, which, one would imagine, that nothing but Vanity, an Itch of Singularity, or a Defire of Victory, could ever have extorted from fo great and excellent a Perfon : and I cannot pars it by without forme little Examination, for which I Shall offer at no Apology to a Lady of your inquifitive Genius, and fuperior Underftanding, directed folly by Reafon and the Nature of Things, without the Prejudices of vulgar Errors, or the Subtilties of Philofophy, falsely fo called.

The mont obvious Idea we have of Matter, is of an extended impenetrable, olid Substance, uncapable of moving itfelf, or of being moved, but

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by the Agericy and Impreflion of fome fulperior, external, active Caile; from whence it will unavoidably follow, that mere Matter;, however modified, exalted; or purified, will be as uncapable of Self-motion, as it was in its. loweft flate of Denfity, or Depreffion ; and confequently cannot, by any Power, be tranifmuted, or fublimated into a liping, felf-moving Subitance ; from whence it follows, that all Gravity, Attraction; Elafticity, Repulfion; and whatever Tendencies to Motion are obferved in Matter; and commonly called natural Powers of Marter, are not Powers implanted in Matter, or poffible to be made inherent in it ; but are intirely owing to fome Impulfe, or Force impreffed upon it from external Caufes. And the moft that can be faid, is, that Matter is indeed fufceptible of Motion, or capable of being moved, but that the Motion itfelf mult proceed from fome exterral Caufe, totally diftinct from, and fuperior to Matter, Mr. Locke, therefore, bad very little Reafon to be foperemptory in his Difpute with the Bifhop of Worcefer, about the Poffibility of Thinking Matter ; where, to prove it poffible, he fays, Vol. 2. p. 144. Edit. 1715. for example, God creates an exterided jolid Subftance, zoitbout fuperadding any thing elfe to it, and fo we may confider it at reft; to fome parts of it be fuperadds Motion, but it bas fill the Eflence of Matter. Other payts of it be forms into Plants, with all the Excellencies of Vegetation, Life, and Beauty, wobich is to be found in a Refe or a Peach-tree, above the Effence of Matter ingeneral, but it is

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fill but Matter: To other parts be adds Senfe, or fpontancous Motion, and thofe other Properties that are to be found in an Elepbant. Hitherto. it is not doubtid but the Power of God may go; but if reve venture to go one Step fiurtber, and jay, Goll may give io Matter. Thought, Reafon, and Volition, as weell as Senfe and jpontaneous Motion, there are Men recaiy to limit the Power of the Ommipotcint Creator, and tell us be cannot do it; becaule it deftroys the Effence, or changes the offintial Properties of Matter, \&cc. Well! and a very good Reafon it would certainly be; for Omnipotence itfelf cannot produce Impofibilities, cannot effect Contradictions, cannot make the fame Thing to be, and not to be, at the fame time; cannot make a Subftance; which, as folidly extended, muft refift all Change of State, become (while it continues unactive and dead) Life, Senfe, and fpontaneous Motion; for that is directly affirming, that the fame Portion of Matter, which is unactive, dull, and dead, may be at the fame time living, fenfible, and fpontaneoufly moving. To fay the truth, his Zeal to fupport his Argument, and confound his Adverfary, has thrown him into fuch Inconfiftencies of 'Thought and Expreffion, as could never have proceeded from cool and fober Reafon. For Inftance, where he fays above, To fome parts of Matter, God Jiperadds Motion, but it bas fill the Effence of Matter. What does he mean by faying, It bas fill the Efence of Matter? Does he mean, that Motion has the Effence of Matter, or is effential to it, or a Mode
of it: Neither of thefe could be his Meaning : he could only mean, that that Portion of Matter to which Motion is fuperadded, has ftill the. Effence of Matter. Who doubss it? And therefore is intirely diftinct from the Motion fisperadded, which is really and truly nothing lefs than an Emanation or Impreffion from the Oiiginal and Eternal Fountain of Life and Power. and, confequently, intirely diftinct from Matter. If Solidity, Inactivity, and Refittunce, be the effential Properties of Matter, it will unavoidably follow, that all thofe Effecis commonly afcribed to certain natural Powers refiding in Matter, are immediatcly produced by the Power of an immaterial Being, who firt created this dead Subftance Matter, originally impreffed, and ftill continues to imprefs Motion upon it. Now whatfoever begins Motion where it was not, and ftops it where it was, that effects a Change from Reft to Motion, and from Motion to Reft, and that arbitrarily, can never be Matter, whofe effential Property it is neceffarily to relift all change of its State, either of Reft or Motion. I therefore conclude, that whatever Principle or Being can arbitrarily effect a Change of the prefent State of Reft or Motion, in that Portion of Matter which compofes the Body of any Animal, cannot be the Matter of the Body itielf, which neceffarily refits or oppofes all change of ${ }^{*}$ its prefent State, and therefore muft be concluded to be an active, immaterial, and piritual Subftance, which, without any violence to Philofophy, we may venture to call a Soul. Pardon
me, Madam, for leading you into this intricate dry Speculation; my Subject led me into it, and requir'd fome little Examination in this place. Some further Confiderations upon this Subject, and the Reverend Father's deviliih Contrivance to account for all animal Functions and Operations, 'vithout allowing them to have Souls, we fhall defer to a more proper Place, and proceed to the next Head of Inquiry.

## II: Of the Neceffity of a Lanruage between

Brutes.
By Language we are not only to underfand a Séquel of articulate Sounds, by which Men have agreed to exprefs their Ideas and Sentiments to each other, but any fort ar kind of inarticulate Sounds, Geftures, or Motions, by which, in the feveral Tribes and Families of the Brute-Creation, the Individuals communicate their Sentiments, their Wants, their Defires to each other: and thefe are, no doubt, as different as the Species themfelves, and as expreffive and fignificant to them ais our moft articulate Sounds can $b:$ to us. Of this there can be no manner of doubt, efpecially among thofe that live in for ciety, as particularly Pigeons, Rook's, Swallows, and Storks among Birds; Bees and Ants among Infects ; and particularly the Beavers among Beafts; and no doubt but there muft be the fame among Fifhes, thofe efpecially which at certain Seafons remove in Shoals to different parts of their Element. All, and each of thefe, speak,

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ipeak, undoubtedly, a Language proper and peculiar to their Species, which are as expreffive and intelligible to them, as our Language is to us; and may, not improperly, be called the different Dialects of the Language of Nature.

Our Author, in the midft of this Inquiry, has dropp'd an Expreflion which I cannot underftand, as having no apparent relation to his Subject, or any Connection with what goes before, or follows after. Page 27, He fays, Angels /peak to each other, yet bave no Voice. How bold, how crude, how unphilofophical is this Expreffion? Have Angels a Voice to fpeak to us, and none to fpeak to one another? Did he never read of the Converfation of Angels with the Patriarchs and Holy Men of the Old Teftantent? Of the Angel Gabriel delivering a Meffage from God to Zacbarias, concerning the Birth of $\mathcal{F o b n}$ the Baptift, Luke i. and another to the Bleffed Virgin, concerning the Incarnation of our Lord Jefus Chrift? Did he never read of the Voice of the Archangel, I Theff. iv. 16? If he only means, that they have not a Voice like us, articulated by the Organs of the Human Body, and different Modulations of the Air ; who difputes it? But is this fufficient to juftify him in faying they have no Voice? Does he allow a Voice, or fomething equivalent to it, to the loweft Orders of Brutes and Infects, and will he allow none to the higheft Orders of intellectual Beings? How furprizing, how unaccountable is this ? Surely he had as mean an Opinion of the good Senfe of

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the fine Lady to whom he was writing, as he had a good one of his own. But to return:

He obferves, very juftly, that we have a choufand ways of expreffing our Paffions, our Sentiments, our Hopes and Fears, our Defires and Wants, our Joys, or Sufferings, without the Mediation of Words. When we are pleafed (fays he, pag. 23.) every thing in us Jpeaks: Do we not continually jpeak by certain Looks, by a Motion of the Head, a Gefture, nay the leaft Sign in the World? Ay! and when we are difpleafed or angry, we can as eafily make ourfelves underflood by Looks and Geftures, as by the plaineft and moftexpreflive Language. How often have I feen thofe lovely Eyes of yours rebuking, with unutterable Eloquence, the affuming Coxcomb, and the malicious Prude, into Silence and good Manners? How many melting Addrefles have you received from the Eyes of your languifhing Admirers, who had neither Courage nor Merit enough to addrefs themfelves in any other Language ? In fhort, languifhing modeft Lovers refemble a Nation or Society of dumb People, who are never at a lofs for a Set of fignificant Looks, Motions, and Geftures, to fupply the want of Words, and Defect of other Expreffions; and which form a Language as expreffive and intelligible to them, as the moft articulate Language in the World can be to other People. Now can any one reafonably doubt, whether the BruteAnimals have the Power and Means of doing the fame? It is, I think, undeniable, that they have all a knowing Faculty; but to what pur-
pofe can we fuppofe the all-wife Author of Na ture has given them this Faculty, but to enable them to provide for their Wants, their Prefervation, and whatever is fit for their Condition, and fuitable to the peculiar kind of Life he has appointed for them. Let us, moreover, confider that many Species of Birds, Beafts, and Infects are made to live in Society at large, and others' to live in a kind of domeftic Society, Male and Female cohabiting together, in a kind of Family, for the Education of their Young-ones. Now, do but confider what Ufe could the firft Species' make of their Underftanding, for the Preferva:tion and Welfare of their Society, and of courfe for their own peculiar Good, arifing from the publick Profperity, if the Members of that Society have not among themfelves a common Laniguage perfectly known to every one of them? What Ufe could they make of their Knowledge and Underftanding, if they had not fome Me thod of communicating their Knowledge, Advice, and Affiftance, to each other? If they could not underftand, or be underftood by each other, they could neither give nor receive any Comfort, Affiftance, or Help from Society, and without fuch a Communication it would be abfolutely impoffible for fuch a Society to fubfift'; in a word, no more Communication, no more Society.

For the better underfanding the Neceflity of this Communication, let us take a nearer View of thofe particular Families among the Beafts, Birds, and Infects, that feem moft to want

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and to ure it, thofe I mean that live in So: ciety. Among the Beafts, we will particularly confider the Beaver, who for his fingular Sagacity, Patience, Induftry, and Skill in Architecture, feems to excel all the quardruped Family. * "The Beaver is a Creature particular" ly remarkable for the ufe made of his "Skin, but moft of all, for the Dexterity with " which he builds his Habitation. The Beaver, " whether Male or Female, has four Bags un"s der his Inteftines, impregnated with a refi" nous and liquid Subftance, which when it is " ejected fettles into a thick Confiftence, of which " he makes a fingular ufe in the building his "Habitation. The Phyficians call it Caftor, " and prefcribe it as an excellent Remedy a"gainft Poifons, Vapours, and other Indifpo" fitions; when it grows old, it blackens and " degenerates into a dangerous Poifon. He is " furnifh'd with three very ufeful Implements " for building, his Teeth, his Paws, and his "Tail. His Teeth are ftrong and deeply ri" veted into his Jaws, with a long and crooked " Root; with thefe he cuts, as well the Wood "for his Building, as that which furnifhes him " with his Food. His fore Feet refemble thofe " of fuch Animals as hold what they ent in " their Paws, as Apes for inftance, Rats, and - Squirrels ; with thefe Feet, he digs, foftens, " and works the Clay, which is extremely fer"viceable to him. His hind Feet are accom" modated with Membranes, or large Skins " between ... * Spectale de la Nature, Dial. 12. p. i\%
" between his Toes like thofe of Ducks, and " other Water-Fowl. His Tail is long, a little " flat, entirely covered with Scales, fupplied " with Mufcles, and perpetually lubricated with "Oil or Fat. This Animal, who is an Ar" chitect from his Nativity, ufes his Tail in" ftead of a Hod, for the Conveyance of his ". Clay or Mortar, and a Trowel to fpread and " form it into an incruftation; the Scales pre" vent thefe Materials from penetrating the Tail " with their Cold and Moifture ; but the Scales " as well as the Tail would be injured by the "Air and Water, if it were not for the pre" vention of an Oil, which he diftributes all " over them with his Snout; and the four Bags "I have mentioned, are undoubtedly the Ma" gazine of this Fluid.
"The Beavers inhabit the fame Manfion " in great Numbers, unlefs violent Heats, or " Inundations, the Purfuits of Hunters, Scar"city of Provifions, or an extraordinary Increafe " of their Offspring oblige them to fepa"rate. In order to fix their Settlement, they " chufe a Situation that abounds with Provi" fions, and is wafh'd by a Rivulet, where they " may form a convenient Refervoir of Water " for their Bagnio. They begin with Build" ing a Mole or Caufey, in which the Water " may rife to a level with the firft Story of " their Habitation. This Caufey at the Foun"dation may contain ten or a dozen Feet in " thicknefs: it defcends in a flope on the Side " next the Water, which in proportion to its E "Elevation
"Elevation gravitates upon the Work, and " preffes it with a ftrong tendency towards the " Earth. The oppofite Side is raifed perpen" dicular like our Walls, and the Slope, which " at its Bafis is twelve Foot broad, diminifhes " towards the top, whofe breadth does not " exceed two Feet. The Materials of this Work " are Wood and Clay. The Beavers with ad" mirable facility cut the Pieces of Wood as " thick as one's Arm, others as large as one's
"Thigh, and from two to four, five, or fix "Foot in length ; and fometimes more, in pro" portion to the Afcent of the flope: They drive " the extremity of thefe very near each other
" into the Earth, and take care to interlace them " with other Stakes more flender and fupple. "But as the Water without fome prevention "would glide through the Cavities, and leave "s the Refervoir dry, they have recourfe to a
"Clay, which they prefently know how to " procure, and with it they clofe up all the "Interftices both within and without; and this " entirely prevents all Evacuation; they con" tinue to raife the Dyke proportionable to the "Water's Elevation and Plenty. They are like" wife very fenlible, that their Materials are not "fo eafily tranfported by Land as by Water, " and therefore take the Opportunity of its " increafe to fwim with Mortar placed on their "T Tails, and Stakes of Wood between their " Teeth, to every Place where they have oc"cafion for thofe Materials. If the Violence "s of the Water, or the Foot-fteps of Hunters, " who

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c. who pafs over their Work, damage it in any " degree, they immediately repair the Fracture, " vifit all the Edifice, and with indefatigable " Application refit and adjuft whatever hap" pens to be difconcerted; but when they are " too frequently perfecuted by the Hunters, " ' they only work in the Night, or elfe difcon" tinue their Labours. "When the Caufey or Dyke is compleated, " they begin to form their Cells, which are " round or oval Apartments, divided into three " Partitions, raifed one above another ; the firft is " funk below the level of the Dyke, and gene" rally full of Water; the other two are formed " above it. They raife this Structure in a very " folid manner on the edge of their Caufey, "and always in Stories, that in cafe the Wa" ter fhould afcend, they may remove to a " higher Situation; if they find any little Ifland " near the Refervoir, they fix the Dwelling " there, which is then more folid, and they " lefs incommoded with the Water, in which " they are capable of continuing but a fhort " time: but if they are not favoured with this " Advantage, they drive Stakes into the Earth " with their Teeth, to fortify the Building " againft the Winds and Water. At the bot" tom they ftrike out two Openings to the " Stream; one conducts them to the Place where " they bathe, and which they always keep very " decent ; the other is a Paffage to that quar" ter, where they carry out every thing that " would foil or rot the upper Apartments. There
" " is a third Aperture much higher, calculated " to prevent their being Thut up, when the "Ice has clofed the Openings into the lower " Lodgments. They fometimes build their "Houfe intirely on the dry Land, and fink " Ditchcs five or fix Feet deep, in order to
": defcend to the Water. They employ the fame " Materials and Induftry in the Structure of their "Dwelling, as they ufe for their Caufey. The "Walls of the Building are perpendicular, and " two Feet thick. As their Teeth are more " ferviceable than Saws, they cut off all the Pros" jections from the Wood, that ftand out beyond " the Perpendicular of the Wall, after which "s they work up a mixture of Clay and dry Grafs,
" into a kind of Mortar, with which, by the
" Aid of their Tails, they rough-caft the out " and infides of the Work.
" The Edifice is vaulted within like the " handle of a Bafket, and generally rifes in an " oval Figure. The Dimenfions are propor-
" tioned to the number of the intended In-
" habitants. Twelve Feet in length, and ten
${ }^{6}$ in breadth are fufficient for eight or ten
" Beavers; if the number increafes, they en" large the Place accordingly. It has been af" ferted for a Truth, that there have been " found above four hundred of thefe Creatures " in different Lodgments communicating with " one another. But thefe popular Societies are
"s very rare, becaufe they are too unmanage-
"able and tumultuous, and the Beavers are
"gencrally better acquainted with their oivn "Interefts.

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" Interefts. They affociate to the number of " ten or a dozen, and fometimes a few more: they are a fet of amicable and fagacious In" habitants, in whofe mutual Society they may " propofe to fpend the Winter together in a " very agreeable manner; they are gifted with " a natural Arithmetick, which enables them to " proportion the Place and Provifions to the " Neceffities of the Company; and as it is cul" tomary for every Individual to continue in " the conftant Poffeffion of his own Cell, they " never charge themfelves with unneceflary Ex" pences for any accidental Guefts. "There are fome Beavers called Terours, " who make their abode in Caverns dug in a " rifing Ground, either on the Shore or at fome " diftance from the Water, to which they fcoop " out fubterranean Trenches from their Ca" verns, which defcend from ten to an hun" dred Feet in depth. Thefe Trenches furnifh " them with retreats fituated at unequal heights, " and wherein they enjoy a fhelter from the " Water when it afcends. Their Beds are " made of Chips, which ferve them inftead of " a Quilt; and of Grafs, which accommodates them in the nature of a Feather-Bed.
" All thefe Works, efpecially in the cold Re" gions, are compleated in Auguf or Septem" ber; after which Period, they furniil them" felves with Provifions. During the Summer "Seaton they regale themelves with all the
"Fruits and Plants the Country produces. In
" the Winter they eat the Wood of the Afh,
" the Plane, and other Trees, which they fteep " in Water, in Quantities proportionable to " their neceffary Confumption; and they are " fupplied with a double Stomach, to facilitate " the Digeftion of fuch a folid Food at two " Operations. They cut Twigs from three to " fix Feet in length; the large ones are con" veyed by feveral Beavers to the Magazine, " and the fmaller by a fingle Animal : but they " take different ways, each Individual has his "Walk affigned him, to prevent the Labourers " from being interrupted by their mutual Occafions. The Dimenfions of their Pile of " Timber are regulated in proportion to the number of the Inhabitants; and it has been obferved, that the Provifion of Wood for ten Beavers, comprehended thirty Feet in a fquare Surface, and ten in thicknefs. Thefe Parcels of Wood are not piled up in one continued Heap, but laid crofs one another, with Interfices between them, that they may the better draw out what Quantity they want, and always take the Parcel at the bottom, which lies in the Water : they cut this Wood into fmall Particles, and convey it to their Cells, where the whole Family come to receive their particular Share. Sometimes they expatiate in the Woods, and regale their " young with a new Coilation. The Hunters, " who are fenfible that thefe Creatures love "green Wood better than old, place a Parcel " of the former about their Lodge, and the: " have feverai Devices to enflare them. When

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"s the Winter grows fevere they fometimes break " the Ice, and when the Beavers come to the " opening for the Benefit of the Air, they kill "s them with Hatchets, or make a large Aperture " in the Ice, and cover it with a very ftrong Net, " and then overturn the Lodge; upon which the
" Beavers, who think to efcape in their ufual way " by flying to the Water, and emerging at the Hole " in the Ice, fall into the Snare, and are taken." Among the Birds let us take a View of the different Tribes of thofe which are particularly called Birds of Paffage, who pafs in great Bodies or Flocks from one Climate to another; fome feeking for a cold, others a hot, others a temperate Region: fuch particularly as Quails, Swallows, Wild-Ducks, Plovers, Woodcocks, and Cranes *. In the Spring, the Quails pafs from Africa into Europe, to find a more tolerable and moderate Summer than they could enjoy in the Country from whence they came. Toward the clofe of Autumn, they return over the Mediterranean to obtain in Barbary and Egypt a gentle heat, correfpondent to the Climates they abandoned, when the Sun was on the other fide of the Equator. They take their flight in Troops, that fometimes refemble Clouds; they frequently cover Ships, and the Sailors take them without difficulty.

As for the Swallows, it was ufually thought that they croffed the Seas at the different Sealons of the Year, but it is much more probable that in thefe Nortbern Countries, they conceal themfelves

[^1]themfelves in the Caverns of the Earth, riveted to one another with their Claws and Bills. They flock to Places unfrequented by Men, or even bury themfelves in the Water ; the Precaution they take to lubricate their Feathers with their own Oil, and to roll themfelves up like a Ball, preferves them in the Water, and even under the Ice. They are there benumbed, and pars the whole Winter without Motion. The Heart however has a conftant palpitation, and the Warmth revives them at the return of the Spring ; they then revifit their former Habitations, and each Individual finds out his own Country, and even his particular City, Village, and Neft.

As to Wild-Ducks and Cranes, both the one and the other, at the approach of Winter, fly in queft of more favourable Climates: They all affemble at a certain Day, like Swallows and Quails, they decamp at the fame time, and 'tis very agreeable to oblerve their Flight ; they generally range themfelves in a long Column like an $I$, or in two Lines united like a $V$ reverfed. The Duck or Crane who forms the Point, cuts the Air and facilitates a Paffage to thofe that follow ; but he is charged with this Commiffion, only for a certain time, at the conclufion of which, he wheels about into the Rear, and another takes his Poft. It is very common, but yet a very furprizing Obfervation, to fee how regularly the Swallows meet upon a certain Day, in order to depart all together, and every Circumftance of their Journey has fomething in it almof miraculous in their Progrefs over Seas

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and Kingdoms, one knows not which to admire moft, the force that fuftains them in fo long a Paffage, or the order in which the whole is accomplifhed. Who acquainted their Young, that it would foon be neceffary for them to forfike the Land of their Nativity, and travel into a ftrange Country? Why do thofe who are detained in a Cage, exprefs fo much Dif. quietude at the Seafon for the ufual Departure, and feem to be Afflicted at their Inability to join the Company? What particular Bird charges himfelf with the Care of affembling a Council, to fix the Day of their Removal ? Who founds the Trumpet to inform the Tribe of the Refolution taken, that each Party may be prepared? Whence have they their Almanack to inftruct them in the Seafon and Day when they are to be in motion? Are they provided with Magiftrates and Officers to preferve the Difcipline which is fo extraordinary among them i For not one of them dillodges till the Proclamation has been publih'd, and not a Deferter is feen on the Day that fucceeds their Departure. Have they Charts to regulate their Voyage by? Are they acquainted with the Iflands where they may ret, and be accommodated with Refrefhments? Are they furnifhed with a Compafs to guide them infallibly to the Coait they would fteer to, without being difconcerted in their Flight by Rains or Winds, or the difmal Obfcurity of many Nights? or are they endued with a Reafon Juperiour to that of Man, who has not Courage to attempt fuch a Paffage,
without a Multitude of Machines, Precautions, and Provifions? Where would be the Danger oz Abfurdity of afcribing all this to Reafon? A Reafon limited and circumfcribed within the narrow Bounds of their own Sphere. A Reafon fufficient to direct them to the Means of preferving and increafing their feveral Families, and anfwering the feveral Ends of their Being, and the Purpofes of their Creation. A Reajon not Juperiour to that of Nan, becaufe the Reajon of Man is vaft and comprehentive, taking in the whole Compafs of Nature, looking forwards and backwards into Eternity; whereas the Sphere of Action allorted to Brutes, is contracted into a very narrow Compafs, and confined to a few Articles of Life and Action; in which too, perhaps, the exquifite Siructure of their Organs, and the Tenuity and Purity of their Juices and animal Spirits, not corrupted, or impaired by Luxury, and Intemperance, may, poffibly, give them a confiderable Advantage over the greater part of the Human Species. But more of this in its proper Place.

Let us next defcend to the various Tribes of Infects, which, tho' vile and contemptible in their Appearance, yct each of them in their feveral Ranks and Stations proclain aloud the infinite Widdom and Power of their Creator. Their Variety, their Difpofitions, their Sagacity, their Policy, their Induftry, the wonderful Proportion of their Organs, the Delicacy of their Structure, and a thoufand other Curiofities obdervable in every Species, are matter of infinite Delight.

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Delight and Plafure to a curions and inquifitive Genius ; but were we able to examine them in a nearer $V$ iew, conld we be capable of knowing the direct Purpofes of infinite Wiidom in their Creation, the Relation they bear, and the harmonious Proportion they ftand in to the univerfal Syftem, it would afford us infinite matter of Aftomithment and Surprize, as well as of religious Reverence and Adoration to their Omnipotent Crator. Small and contemptible as they appear to us, they are really formed with the moft exquifite Symmetry, the mof delicate Proportion. Vulgar Prejudice may confider them as the Effecte of Chance, and the Refure of Nature; but an attentive Eye, affifted by the help of Microfcopes, difcovers in them antonifhing Marks of infinite Wifüom, which, far from neglecting them, has been particularly careful to cloath, arm, and accommodate them with all the Inftruments and Faculties neceffary to their Condition. This it is * that has arrayed them, even to a degree of Complaifance, by laying out fuch a Profufion of azure, green, and vermillion, Gold, Silver, and Diamonds, Fringe, and Plumage, upon their Robes, their Wings, and the Ornaments of their Heads. We need only behold the Ichneumon, Spanifb Dragon, and Butterfiy, nay, a Caterpillar itteif, to aftonifh us with this Magnificence. The fame infinite Wifdom, which has been fo liberal in their Ornaments, has completely armed them for making War, and affaulting their Enemies,

[^2]as well as defending themfelves. The genera~ lity of them are provided with frong Teeth, a double Saw, a Sting with two Darts, or vigorous Claws, and a fcaly Coat of Mail, for the Defence of their whole Body. The Safety of the greateft part of them confirts in the Agility of their Flight, by which they eafily avoid the Danger that threatens them: Some by the Affiftance of their Wings, others by a Thread that fupports them, when from the Leaves on which they live, they throw themfelves at a difance from their Enemy; and others by the Spring of their Hind-feet, whofe Elafticity immediately launches them out of the reach of Danger, and when they are deftitute of Force, Stratagern, and Cunning, fupply the want of the common and ordinary Means of their Prefervation.

This is very wonderful; but our Wonder in-creafes, when we attentively confider the different Organs and Implements' with which each of them work in their feveral Profeffions: Some fpin, and have a couple of Diftaffs, and Fingers to form their Thread; others make Nets and Lawn, and for that purpofe are provided with Shuttles, and Clues of Thread. There are fome who build in Wood, and are therefore fupplied with two Bills for cutting their Timber. Others make Wax, and have their Shops furnifh'd with Rakers, Ladles, and Trowels. Mof of them have a Trunk, more wonderful for its various Ufes than the Elephant's, and which to fome ferves for an Alembic for the diftillation

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difillation of a Syrup Man can never imitate ; to others it performs the Office of a Tongue; many employ it as a Drill for piercing, and the generality of them ufe it as a Reed for Suction. Several, whofe Heads are fortified with a Trunk, a Saw, or a couple of Pincers, carry in the other extremity of their Bodies an Augur, which they lengthen and turn at difcretion; and by that means dig commodious Habitations for their Families in the Heart of Fruits, under the Bark of Trees, in the Subfance of Leaves or Gems; and frequently in the hardeft Wood itfelf. There are few who have excellent Eyes, but have likewife an additional Benefit of a couple of Horns, or Antenina, that defend them; and as the Animal moves along, efpecially in the dark, make a tryal of the Way, and difcover by a quick and delicate Senfation, what would defile, drown, or endanger them; and if they find thefe Horns moittened by any offenfive Liquor, or bend by the Refiftance of a folid Body, the Animal is warned of the Danger, and turns another way. Now all thefe Motions, even of the minuteft Animals, however accidental or capricious they may appear to us, are as really directed to a certain End, as thofe of the largeft Beings : we fhall find all the Sagacity and Cunning we admire in a Fox, for chufing himeif an advantageous Kennel, providing for himfelf and his Family the Neceflaries of Life, and avoiding the Snare of the Gin, and the Perfecution of the Hunter: The fame Induftry with which we fee a Bird build itfelf a convenient Neft, provide
vide for the Subfiftence of itelf and Young-ones; and elude the Smares of the Fowler; you will find the fame Care, the fame Sagacity, actuating the fmalleft Infect for the Prefervation of itfelf and its minute Pofterity. The Parent is feldom, or never, deceived in the natural Choice of Means for its own Prefervation, or the Security and Education of its Young-ones. Diffolve a Grain of Pepper in Water, you niay difcover by the help of a Microfcope, Worms of an incredible Smallnefs, fivimming in the Fluid. The Parent, who knows this to be their proper Nourifiment, never lays her Eggs in any other Place. Look through a Microficope at a D:op of Vinegar, there you will difcover a number of little Eels, and never any other Animals, becaufe one particular Creature knows, that Vinegar, or the Materials that compound it, is proper for her Family, and therefore depofits them cither in that Matter, or in the Liquor itfelf, and no where elfe. + In thofe Countries where the Silk-worm feeds at large in the Fields, her Eggs are orly to be found on the Mulberrytree: 'tis eafy to fee what Intereft determines her to that Choice. You will never find upon a Cabbage any Eggs of the Caterpillar that cats the Willow; nor fee upoin the Willow the Eggs of any Caterpillar who feeds upon Cabbage. The Moth feeks for Curtains, Woollen Suff, drefs'd Skins, oi even Paper, becaufe its Materials are Fragments of Cloth, which have lof the bitter Flavour of Hemp, by the work-

[^3]ing of the Paper-mill. In fhort, every Species of Animals, from Man the Loid of the Creation, to the minuteft Infect that the naked Eye, or the Microfcope can difcover, act with Regularity and Uniformity, with ali the Marks of Wifdom, Sagacity, and Prudence, within their feveral Spheres of Action, for the Prefervation of their Being, the Propagation of their Species, and anfwering the feveral Ends and Purpofes of Providence in their Creation, and the Rank which they hold in the Syftem of Nature.-But what am I doing! -Pardon me, Madam, my Purfuit of this copious and delightful Inquiry, has led me off from the main Queftion I propofed to confider, which was, the Neceffity of fome Language, fome Means of communicating the Sens timents, Wants, Inclinations, and Defires of the Individuals of every Society and Family, in order to confult and provide for the Safety and Happinefs of the whole. The mutual Wants of Society, the Care and Education of a Fa mily, mult be in fome fenfe, and to a certain degree, the fame in all Societies and Families of Birds and Beafts, Reptiles and Infects, as well as of Men; and without fome kind of Language, fome Method of Communication, thofe Wants could never be known, nor thofe Neceffities effectually fupplied. All Creatures, therefore, that live in fociety, who divide the feveral Duties and Offices of that Society among the Individuals, who appoint to every Member their diftinct Offices, their peculiar Pofts, their particular Provinces, muft of neceflity have fome Lan-

> guage,
guage, be it what it will, fince, without this Help it is quite impoffible for any Society to fubfift, Now, tho' all Animals do not incorporate in arge Societies, yet all have Families, domeftic Engagements, Cares, and Neceffities, which require mutual Help and Affiftance, and by confequence a certain Language, by which their mutual Wants, Inclinations, and Neceflities may be difcovered and made known to each other ; fo that every Species of Animals feem to have the fame want of a Language, of fome kind or another, as thofe which live in great Societies: for as all Societies are but Affociations of Families or Individuals, whatever infers the Neceflity of a Language in one cafe, infers it equally in all.

It would be hard to affign a Reafon why Nature, or rather the all-wife Author of Nature, who always acts uniformly, fhould deny fome of them a Privilege he has granted to the reft. It is a general Obfervation that all the Productions of Nature are uniform, that as the is fparing in Superfluities, fo ine is rather profure in things neceffary, and upon the whole does nothing in vain: but is it not neceffary that a Couple of Animals, joined to form a Houfhold and Family together, a Couple of Birds for inftance, fhould be able to underftand, and mutually to impart their Sentiments and Thoughts to each other? Let us return to the old Suppofition of two People abfolutely dumb, living together in the fame Houfe, without the Affiftance of any other Perfon; I defy the Union to fubfint, if they have no means left of agreeing about their Affairs,

Affairs, and expreffing their mutual Wants and Neceffities. Two Sparrows, two Foxes, two Whales, will lie under the fame Impoffibility of living together ; and all the Inconveniencies of the dumb Society I have mentioned, will be feen in their refpective Families: In a word, the Neceffity of a Language between a Husband and his Wife, to enable them to live together, upon which human Societies fubfift, is, in due degree, the fame in all the Species of Beings below them, in every Tribe and Family of the Brute-Creation.* Could it be fuppofed, that there were any Race of Animals in the Univerfe capable of producing their Kind in abfolute Solitude, without the Intervention of a different Sex, it muft be confefled the Faculty of Speech to them would be quite a ufelefs Talent: . but wherever two Beafts, or two Birds, fhall ftand in an habitual Need of each other, and form among them a lafting Society; they muft of neceffity fpeak to each other. How is it to be:conceived, that in the Gallantry of their furf Addreffes to each other, their mutuai Concern and Vigilance for each other's Weifare, and the neceffary Cares that attend the Education of their Families, they fhould not have a thoufand things to fay to each other ? It is impoffible in the order of Nature, that a Sparrow, or a Turtle, that is fond of his Mate, fhould be at a lofs for proper Exprefiions to difcover the Tendernefs, the fealonfy; the Anger, the Fears he entertains for her, in the feveral In-

cidents

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cidents of Life that muft arife betwist the moft loving Couple, in the courfe of a long Cohabitation. He muft fold her when fhe plays the Coquet, he muft bully the Sparks that make Attempts upon her Virtue, he muft be able to underftand her when fhe calls to him ; he muft, whilft fhe is affiduounly fitting upon her Brood, be able to provide Neceffaries for her, and know dittinctly what it is fhe wants or calls for, whether it be fomething to eat; or Materials to repair her Neft; in all which, a Language, of fome fort or other, is abfolutely neceffary.

Our Author reafons fo pertinently and confiftently upon this Head, that I fhall chure to give you the two or three following Paragraphs in his own Language.
"Many Bealts, one will fay, have not a fet" tled and permanent Hourhold like Birds, (for " by-the-byc, Birds are the moft perfect Mo"s del of conjugal Conftancy and Fidelity:) this "I very well know, and their Number is " even very great. Such are Dogs, Horfes, Deer, " and almoft all Quadrupeds, Firhes, and Rep"c tiles. But I fhall always infift upon a Prin"ciple, granted and acknowledged as certain ; ". Nature is too much like herfelf in Productions "s of one and the fame Genus, as to have put " between Beafts fo effential a Difference, as " that of Speaking, or not Speaking at all, "would be. Upon this Principle it is, that "though we hardly know the Seeds of Coral, :-s of Muhhrooms, of Trufles, or Fern, we are " neverthelefs

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" nevertheless perfuaded that there Plants pro"cred from Seeds, because it is the manner " in which Nature produces all the reft. Let " us then conclude, that if Nature has given " to Beats (or Animals) living in Society, and " in a Family, the Faculty of Speaking; the " has doubters bellowed the fame Advantage " on all the reft. For we are not now upon "thole accidental Differences which Nature " loves to diverfify in the different Species of " the fame Genus: there are not, perhaps, in " the whole World two Faces perfectly alike ; " but yet all Men have a Face. There are among the feveral Species of Animals Diffe" rences fill greater: forme have Wings, others " have Fins, forme Feet and Legs ; the Serpents " have none of thee : but all Animals have " the Faculty of moving and transporting them" felves wherever they please, according to " theirWants. Among Animals there are fore " that fee and hear more or lefs perfectly; but " yet they will hear and fee. It is the fame thing " with the Faculty of Speech: this Faculty, " perhaps, is more perfect in the Beats which " live in Societies and form Families; but it " being in forme, we malt believe it to be in " all of them, but more or less perfect, accord" ing to their reflective V/ants. " It is even oblervable, that the Animals " who live neither in Society, nor: in a fettle " Family, yet have in each Species a fort of " Commerce or Society among themselves. "Such are the Quadrupeds; the Fiihes, the G 2 " Reptiles,

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" Reptiles, the Birds themfelves independently " of their Houfhold, as Starlings, Partridges, " Ravens, Ducks, and Hens. Now what Ad-
" vantage could thefe Creatures have by endea-
"vouring to live in Society one with another,"
" if they did it not for mutual Affiftance, and
" reciprocally to have the Benefit of their Know-
" ledge, Difcoveries, and of all the Helps they
" can afford each other ; and how could they do
" fo, if they do not underfand one another ?
"All the Arguments I have already ufed to
" prove, that the Creatures which live in So-
"ciety muft have a Language, here again find
" their Place and their whole Energy. All the
" Difference mult be only in the Degrees of
" Plus and Minus; and if we judge of this only
" by Matters of Facts, perhaps there is no dif-
" ference at all.
"The Wolves, for inftance, hunt with great
"Skill, and together contrive warlike Stratà-
" gems. A Man crofing a Frith, faw a Wolf
" who feemed to be watching a Flock of Sheep.
" He informed the Shepherd of it, and advifed him to caufe the Animal to be purfued by his Dog: I fhan't be fuch a Fool, replied the Shepherd; the Wolf yonder is there only to divert my Attention, and another Wolf who
" is working on the other fide, only watches
" the Moment when 1 fhall fet my Dogs upon
'" this to fnatch one of my Sheep from me.
"The Man who was paffing by, willing to
" be fatisfied of the Fact, promifed to pay for
${ }^{6}$ 'the Sheep; and the thing happened, juft as
" the Shepherd faid it would. Does not a Stra"tagem fo well concerted evidently fuppofe " that the two Wolves had agreed together, one to fhew, and the other to hide himfelf? Now how is it poffible to agree in this manner without the help of Speech ?
" A Sparrow finding a Neft that a Martin " had juft built, ftanding very convenient for " him, pofieft himfelf of it., The Martin " feeing the Ufurper in her Houfe, call'd for " help to expel him. A thoufand Martins came " full fpeed and attacked the Sparrow: but the " latter being covered on every fide, and pre" fenting only his large Beak at the Entrance " of the Neft, was invulnerable, and made the boldeft of them, who durft approach him, to repent their temerity. After a Quarter of an Hour's Combat, all the Martins dif"appeared. The Sparrow thought he had "got the better, and the Spectators judged " that the Martins had abandoned their Undertaking. Not in the leart. Inmediately we faw them return to the Charge; and " each of them having procured a little of that "temper'd Earth; with which they make their "Nefts, they all at once fell upon the Spar"row, and inclofed him in the Neft to perifh " there, tho' they could not drive him thence. "Can you imagine, Madam, that the Martins " could have been able to hatch and concert "this Defign all of them together, without fpeak$«$ ing to each other ?
" Wonders are recounted by Travellers of " the Monkeys, when they go a plundering; " a Troop of Soldiers when they go a For" raging, cannot march in greater Order, or " with more Precaution. I could mention, and "you can eafily recollect a thoufand other ln" ftances of the fame Nature ; but this would "require a Volume, and I aim only at fupport" ing my Argument. Men hitherto have al"ways made ufe of thefe Inftances to prove " that Beafts have a knowing Faculty; and they " have been in the right fo to do, becaufe it " is really inconceivable, that Beafts can do fuch " fingular Actions without Knowledge, but we " have not fufficiently examined into the Me" rits and Bottom of this Queftion; for if it be " abfolutely impoffible for Beafts to perform " thefe Actions without fpeaking, we are more" over obliged to conclude, that they have a " Faculty of fpeaking to each other. Now, " Madam, I would beg of you here to ob"ferve, that this is not an Opinion or a Syftem " founded upon meer Conjecture or probable " Explications, but an Argument fupported by " fenitible and palpable Facts; I fay fenfible Mat" ters of Fact, fuch as thefe I have juft been " alledging, and a thoufand others of every

* Kind. Enter into a Wood where there are "a Parcel of Jays, the firft then that fees you " gives the Alarm to the whole Troop. Mag" pyes, Blackbirds, and almoft all the Feathered Kind do the fame. Let a Cat but fhow " herfelf upon the top of a Houfe, or in a Gar-
" den, the very firft Sparrow that perceives her, " exactly does what a Centinel does among us, " when he perceives an Enemy; he by his "Cries warns all his Companions, and feems " to imitate the Noife of a Drum beating a "March. See a Cock near his Hen, a Dove " near the Female be is courting, a Cat fol". lawing his Mate, there is no end of their "Difcourfes, till there is an end of their Court" Mhip. But there is one important Reflection " yet behind, which in my Opinion is little "lefs than Demonftration. We every day " fpeak to Beafts, and they underftand us very " well. The Shepherd makes himfelf under" ftood by his Sheep, but particularly by his Dog that attends him. The Cows underftand all the Milkmaid fays to them. Many " a profound Converfation paffes between the "Sportfman and his Dogs ; the Groom and his " Horfes; the Lady and her Parrot; Mifs and her Cat; we fpeak to them all, and they " underftand us; they in their turn fpeak to
" Speak no other than a foreign Language ; and
" if Nature has enabled them to fpeak a foreign
". Language, how can fhe have refufed them the
©Faculty of fpeaking and underftanding a Na -
" tural one? This can hardly be conceived. "But though we fhould allow Underftand-
" ing and Language to the feveral Species of
\% Beafts, Birds, and Infects; What haill we do
" with the Finhes and Reptiles; What can we " fay for them? Has Nature been as boun" tiful to them as to the reft, murt we al" low them to have Speech and Underfand'" ing? Can they underftand and converfe with " each other? Can we imagine a Converfation " betwixt two Fifhes, two Ants, or two " Worms? The Birds indeed fing, the Dogs
" bark, the Wolves howl, Sheep bleat, Lions
" roar, Cxen low, Horfes neigh; this every
" body hears and knows: but who ever heard
" the Language of a Fifh, or the Converra-
"tions of Worms and Caterpillars? What-
" ever Difficulty there may be in hearing or
" explaining their Language, I think there can
" be but little in apprehending they have one,
" upon the fame general Principles laid down
" before ; and fince there is a ftrong Prefump-
" tion that all other Species have it, as arifing
" from the Necelify of their Nature; the Pre-
"fumption feems equally frong for them as
" for the reft. But the Difficulty lies in be-
" ing able to know and diftinguifh it, part
" of them live in an Element forbidden to
" us, and mariy of the others efcape our Sight
" by their fmallinefs. But how do we know
" that Fifhes have not as many and perhaps
" more vocal Expreffions than the Birds them-
" felves? They all of them feem to be form-
" ed upon the fame Model ? Some fly, others
"fwim; but flying and fwimming are one
" and the fame Motion, the Difference is only
" in the Element. We are told in the Book


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* of Genefis, ch. i. v. 20. that God created at the fame time both Fifhes and Fowls from the Bofom of the Waters. Fifhes have five Senfes as well as Birds and other Animals, and why fhould they not have the Faculty of Speaking as well as the reft? It is true, we cannot hear them fpeak or fing, but it is perhaps for want of proper Organs to hear them. The Water is throughly penetrated with Air which the Fifhes breathe, Why may they not with that Air, and by means of a Spring equivalent to the'Tongue and Throat, form Vibrations and Sounds too nice and delicate for our Ears, but which are eafily heard and underftood by their own Species? The Ear of Man is extremely coarfe, which is the refult of a neceffary Providence; for were our Ears fenfible of the minuten Vibrations of the Air we live in, we fhould be for ever ftunned with a thoufand confufed Noifes, which would never permit us to diftinguifh any one of them. There are then certainly in the Air many Sounds which we do not hear ; fuch as, for inftance, the Noife of a Silk-Worm gnawing a Mulberry Leaf; if he is alone, or there are but few of them together, no body can hear them: but put a a certain Number of them in a Cabinet, and then all thofe little Noifes joined in unifon, become mighty fenfible to our Ears. How much more is it poffible, that there may be in the Water Noifes infenfible to us, and that Fifhes may by that means fpeak, without


## ( $5^{\circ}$ )

" being audible to us: at leaft I delight in "thinking fo, not to rob any part of the Cre" ation of thofe Perfections which Nature ufes " to beftow on all : nor could I think, with"out a kind of philofophical Melancholy, "that fhe had doomed to eternal Silence, in" numerable Nations, which inhabit the Im" menfity of the Seas and Rivers. Silence is " the Portion of the Dead; Speaking .enlivens " the Living themfelves. You may laugh, and " be as merry as you pleafe upon my fpeak" ing Fifh, as doubtlefs he was laughed at that " firft mentioned a flying Firh, and yet the " one may chance to prove as true as the " other.
" The Reptiles and Infects are juft in the " fame Cafe. There are many kinds of Rep" tiles which have very diftinct vocal Ex" preffions; fuch as Serpents, Frogs, and Toads: " and confequently, arguing upon the Principle " of the Uniformity of Nature, we are inti"tled to fuppofe an Equivalent in the reft; " not to mention fupplemental Miens, Looks, " and Geftures. It is not quite fo with the "Infects: there is no Species of them, that we " know of, that has vocal Expreffion, pro" perly fo called: The Cry of the Cricket, the " finging or chirping of the Grafhopper, the "Noife of certain Butterflies, and the hum" ming of Flies, are not properly vccal Sounds, " but Noifes caufed by the trembling of a " Membrane. But what of all that? It can" not be doubted, but that the Cry of the " Cricket

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"Cricket and Grafhopper, ferves them to call " each other in order to meet, and, very like-
${ }^{\text {" }} \mathrm{ly}$, to converfe. It may be thought that the " humming of the Flies likewife ferves them
" to know each cther in every Society, either " by the Uniformity or Unifon of the ' Tone,
"، or imperceptible Differences not within our " reach, which may be equivalent to vocal Ex" prefions, and is at the fame time a Proof, how "Nature, always uniform as to what is gene" ral and effential, is, at the fame time, ingenious in: varying the Means and Particulars of " of her own Productions. Now, what Nature " has done for fome Infects, the has: certainly done for all.
"There is, for inftance, a particular Sort of "Spiders, which have a very fingular Method "' of teftifying to each other their Defire of " being together. The Spider that wants Com" pany, ftrikes, with I know not what Inftu" ment, againft the Wall or Wood where the " has fettled, nine or ten gentle Blows; nearly " like the Vibrations of a Watch, (which there" fore the Ignorant and Superftitious calla Death" watch) but a little louder and quicker ; after " which flue flays for an Anfwer : if the hears ", none, the repeats the fame by Intervals for "c about an Hour or two, refuming this Exer"cife, and refting alternately Night and Diy. "After two or three Diys, if fhe hears no"thing, fhe changes her Habitation, till the "finds one that anfwers her. It is another Sfee " der that anfwers her exactly in the fame man-

## ( $5^{2}$ )

" ner, and, as it were, by Echo. If the lat" ter likes the Propofal, the Converfation grows " brikker, and the beating becomes more fre-
"quent. Give attention to it, and you will
" find by the Noife that they gradually ap" proach each other, and that the Beatings " come at laft fo clofe, that they are confound" ed, after which you hear no more Noife; " very likely the relt of the Converfation is " whifper'd. I have oftentimes amufed my" felf in making the Echo of a Spider, "which I have heard beating, and whofe "Noife I imitated, and the anfwered me punc-
" tually; fhe fometimes even attacked ine, and " began the Converfation: I have often given " that Diverfion to feveral People, and made " them believe it was a familiar Spirit.
" How many like Difcoveries might we make
" upon Infects, if our Organs were delicate
" enough to fee and perceive their Airs and
" Motions, to hear their Voices, or what Naturé "s has allotted them inftead of Voices, I make "s no doubt, but we fhould find in Ants, Bees,
"Worms, Scarabæus's, Caterpillars, Palmer-
" worms, Mites, and all the Infects, a Language
"defigned for their Prefervation, and the fup-
" ply of their Wants. And as there are certain
"Species of Infects; in which we obferve great-
" er Induftry and Knowlege than in large Ani-
" mals, it is not improbable that they have like-
\% wife a more perfect Language in proportion,

- always confined however to the Necelfaries of " Life."


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Thus far I have tranfribed almof intirely from the ingenious Author, who upon this Head talks more like a Philofopher, than in any other part of his Work. But were we now to enter into a minute Examination of the various Labours, the indefatigable Application, the publick Spirit, the regular Policy, the exact Oeconomy of the feveral Families of Infects, Bees, Ants and Wafps in particular, of which you find moft furprizing Accounts in Spectacle de la Nature, and other learned Writers, it would be very hard to account for them, any otherwife than by allowing fome mutual Means of Communication betwixt the Individuals of each Society, which we may venture to call a Language, or fomething analogous to it ; and why thould we be afraid of allowing this, when we confider, that even the moft inarticulate Sounds are a kind of Language to fome part of the Creation or other; nay, I may venture to add, even to ourfelves. Do not the Drum and Trumpet fpeak to the Soldier? Does not every mufical Sound feak to fome part of our Nature? How are we excited by fome to martial Rage and Fury, foften'd by others - into jovial Mirth and Pleafures and diffolute Luxury; and melted by others into the tendereft Sentiments of Pity and Compaffion, and fometimes even into Tears? Nay, the moft difcordant and grating Sounds have a Power over us ; they make difiagreeable Impreffions, and excite painful Senfations in us; they difcompofe and diffipate the Spirits, they feem to curdle the Blood, like Acids thrown into

Milk, they enfeeble the whole nervous Syftem, they fpread a Trembling through our Joints: and Palenefs over our Faces, and make the ftouteft Heart to tremble. Mr. Collier, has fomewhere in his Eflays, carried this Thought fo far as to fancy, that fuch a Concert of difcordant Sounds, or Anti-mufic, might be compofed, as fhould fink the Spirits, fhake the Nerves, curdle the Blood, and infpire Defpair, Cowardice, and Confternation into all that hear it. 'Tis probable (fays he, Part II. page 24.) that the roaring of Lions, the vearbling of Cats and ScreechOsols, together roith a Mixture of the boveling of Dogs, (to which I could add fome other Sounds, which I tremble to think of) judicioully imitated and compounded, might go a great way in this Invention: And propofes it as a very ufeful Improvement for the military Service, to frike a Terror and Panic into an Enemy; not confidering, that the Performers in this infernal Concert, and their Friends about them, would be in more Danger than the Enemy, who would be further removed from the difcordant Sounds, and confequently from the ter:rible Impreffion. This by-the-bye.-But in general we may venture to affirm with the Apoftle, That among $\beta$ that almoft infinite Variety of Sounds and Voices that are to be beard thro' the wobole Creation, there is not fo muchb as one without its Signification. 1 Cor. xiv. Io.

Well! Madam, thus far, I think, our Author and we are pretty well agreed, that Brutes have Underfanding to know and exprefs their Wants,

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Wants, and provide for their Neceffities; and a Language, or fomething equivalent to it, to demand and give mutual Advice and Affiftance. Here, I think, we muft make a Stand, we can go no further: their Language, however known to them, is quite unknown to us; but could we converfe with them in their own Language, as our renown'd and ingenious Countryman Capt. Lemuel Gulliver did with the Nation of the Houbynnims, we might then perhaps have Reafon to agree with him, that they think and act more rationally, have more Senfe, more Honour, and more Virtue, are better Philofophers, and deeper Politicians, than fome of the fineft Folks in Great Britain. - The only Difference now between us is, how to account for thefe furprizing Faculties, that they are not the Effects of mere Matter and Motion; that they vaftly exceed all the Powers of Mechanifm, he readily confeffes, and fo I think muft you and I. But firitual Powers and Faculties, without a fpiritual Subject to which they belong, and in which they refide, is a fhocking Abfurdity. Well, and how does he get rid of this Difficulty? You fhall hear him, Madam, in his own Words, Page io. Reafon (fays he) naturally inclines us to believe that Beafts bave a Spiritual Soul; and the only thing that oppofes this Sentiment, is the Confequences that might be inferred from it. If Brutes bave a Soul, that Soul muft be eitber Matter or Spirit, it muft be one of the two; and yet you dare affirm neither. You dare not fay it is Matter, becaufe
you muft then neceffarily fuppofe Matter to be capable of Thinking; nor will you fay that it is Spirit, this Opinion bringing with it Confequences contrary to the Principles of Religion; and this among others, that Men would differ from Beafts, only by the Degrees of Plus and Minus, swhich would demolifls the very Foundations of all Religion. Therefore, if I can elude all thefe Conjequences, if I can affign to Beafts a Spiritual Soul, zeithout friking at the Doctrines of Religion, it is evident that my Sy/tem, being moreover the moft agreeable to Reajon, is the only warrantable Hypothefis. Nowe 1 fluall, and can do it with the greateft Eafe imaginable. I even bave means, by the fame Metbod, to explain many very obfoure Paffages in the Holy Scripture, and to refolve fome very great Difficulties, which are not rvell confuted. This we flball unfold in a more particular Manner.

And, in good truth, Madam, you will find the Matter as particular as the Manner. An Hypothefis, fo wild and unphilofophical, fo contrary to Reafon and Scripture, fo . Mocking to common Senfe, delivered with fuch an affuming Air, and fuch dogmatical Language, could furely proceed from nothing but an Excefs of Vanity, or Contempt of his fine Lady's Underftanding. But I fall detain you from it no longer, but give you as fhort and plain a View of it as I can; and, as near as poffible, in his ownWords.

Page II. Religion teaches us, that the Devils, from the very Moment they badfinned, were reprobate, and that they weere doomed to burn for

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ever in Hell; but the Church bas not as yet determined wobether they do actually endure the Torments to which they are condemined: it may then be thoutght they do not yet fuffer them, and that the Execution of the Verdict brought againgit them is referved for the Day of the final JudgmentPage 13. Now what I pretend to infer from bence is, that till Doom's-day comes, God, in order not to fuffer fo many Legions of reprobate Spirits to be of $n 2$ uje, bas diftributed then thro the Jeveral Spaces of the World, to ferve the Defigns of bis Providence, and make bis Omnipotence to appear. Some continuing in their natural State, bufy themfelves in tempting Men, in jeducing and tormenting them, eitber immediately, as Job's Devil, and thofe that lay boid on human Bodies, or by the miniftry of Sorcerers or Pbantoms. Theje wicked Spirits are thofe whom the Scrip. ture calls the Powers of Darkne/s, or the Powers of the Air. God, with the others, makes Millions of Beafts of all kinds, winich jerve for the feveral U/es of Man, wibich fill the Univerle, and caufe the Widdom and Ommipotence of the Creator to be adnired: By that means I can eafily conceive bow, on the one band, the Devils can tempt us; and on the otber, bow Beafts can think, know, bave Sentiments, and a Spiritual Soul, witbout any way firiking at the Doctrines of Religion. I amz no longer furprized to fee thems bave Dexterity, Forecaft, Memory, and 'fudgment. I Ifould rather bave occalion to woider at their baving no more, fince their Soul, very lik. ly, is more perfeet than ours: But I difcover the Reajom of this, it is besnule in Beofts as cooll as in
our felves, the Operations of the Mind are dependent on the material Orgaus of the Macbine to robich it is united; and thefe Organs being groffer and lefs perfect in Beafts than in us, it follows, that the Kinovidedse, the Thoughts, and the other Jpiritual Operations of Beajts, muft of courfe be lefs perject than our's: and if theje proud spirits knowo their oron difmal State, sobat an Humiliation muj't it be to them, thous to fie themfelies reduced to the Condition of Beafts! But robether they know it or no, , fo foameful a Degradation is Jeill with regard to them, that primary Effect of the divine Vengeance I juft mentiond, it is an anticipated Hell. P. 17. Having mentioned the l'rejudices againgt this Hypothe fis, fuch as particularly the Pleafure zebich People of Senze and Religion take in Beafts and Birds, efpecially all jorts of DomeAick Animals; be proceeds : Do we love Beafts for their own fakes? No. As they are altogetber Strangers to buman Society, they can bave no oiber Appointment, but that of being ulefill and amufing. Ind what care we, whetber it be a Devil, or any other Creature, that Jerves and amules us? The thought of it, fur from Joocking, pleafes me mightily. I with Gratitude admire the Goodne/s of the Creator, who gave me too many litille Devils to ferve and amufe me. If I am told, that theje poor Devils are doomed to fiffer eternal Tortures, I admire God's Decrees, but I bave no manner of Sbare in this dreadful Sentence; I leave the Execution of it to the Sovereign 'Judge, and notrwithfanding this, I live roith my little Devils, as. I do woith a Mul-
titude of Pcople, of cobom Religion informs me, that a great Number foall be dumned. But the cure of a Prejudice is not to be effected in a Moment, it is done by Time and Reftection; give me leave then ligbtly to touch upon this Diffecuity, in order to obferve a very important Thing io you.

Perfuaded as we are, that Bealts bave Intelligence, bave we not all of us a thoufand times pitied them for the excelfive Evils, waich the majority of thesn are expoled to, and in reality fuffer? How unbapty is the Condition of Horles, we are apt to fay, fieing a Horf' mom an unmercifull Carman is murdering with Blows! Howe miferable is a Dog vekom they are breaking for Hunting! How difinal is the Fate of Berffs living in Woads, they are perpetually expoped to the Injuries of the Wi catber, akoyss feized with Apprebenfions of becoming the Prey of Hunters, or of fome wilder Animal, for ever obliged, after long Fatigue, to look out for fome poor infipids Food, often juffering cruel Hunger, and jubject moreover to Illnefs and Deatij! If Men are Jisbject to a multitude of Miferies that overwheins them, Religion acquaints us with the reajon of it, viz. their being born Sinners: but what Crimes can Beafts bave committed, by Birth to be Jubject to Evils fo very cruel? What are we then to tJink (p. 19.) of the loorrible Excefies of Miferies undergone by Beafts : Miferies indeed, far greater than thofe of Men? This is in any other Syflem an incomprebenfible Mylery; wobereas niothing is more eafy to be concerved from the Sy/tem I propofe. The revellious Sopirits deferve a Puniflement fill more rigorous, and bappy is it for

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them that their Panifment is deferred; in a word, God's Goodness is vindicated, Man bimfelf is juftified: for what Right can we have reitbout Necefjity, and often in the way of meed Diverfion, to take away the Life of Millions of Beats, if God bad not authorized bin fo to do?. And Beafts being as jenfible as our delves of Pain and Death, hove could a just and merciful God have given Man that Privilege, if they were not Jo many guilty Victims of the Divine Vengeance?

But bear pill Something more convincing, and of greater Consequence: Beafts, by Nature, are extremely Vicious. We know well that they never fin, because they are not free; but this is the only Condition wanting to make them Sinners. The Voracious Birds and Drafts of Prey are cruel: Many Infects of one and the fame Species devour eacbotber. Cats are perfidious and ungrateful, Monkeys are mijcbievous, Dogs are envious. All Beafls in general are jealous and revengeful to excels; not to mention many other Vices we obfere in them; and at the fame time that they are by Nature jo very vicious, they have, fay sue, neither the liberty, nor any helps to refit the Byafs that hurries them into fo many bad Actions. They are, according to the Schools, necefitated to do Evil, to difioncert the general Order, to commit whatever is in Nature mol contray to the Notion we have of natural fufice, and to the Principles of Virtue. What Monfters are the fe, in a World originally created for Order and 'fufice to reign in? This is in good part what formerly perfiuaded the Manicheans, that there were of necefity two Orders of Things, one

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good, and the other bad; and that Beafts were not the Work of the good Principle. A monftrous Error! But bow then fhall ave believe that Beafts came out of the hands of their Creator with Qualities fo very frange? If Man is $\int 0$ wery wicked and corrupt, it is becaufe he bas bimfelf through Sin perverted the bappy Nature God bad given bim at bis Formation. Of two things then we muft fay one: either that God has taken delight in making Beafts fo vicious as they are, and of giving us in them Models of robat is moft frameful in the World; or that they bave like Man Original Sin, which bas perverted their primitive Nature.

The firft of thefe Propofitions finds very difficult accefs to the Mind, and is an exprefs Contradiction to the Holy Scriptures, wobich jay, that whatever came out of God's bands, at the time of the Creation of the World, was good, yea very good? What good can there be in a Monkey's being fo very mifchievous, a Dog fo full of envy, a Cat fo malicious? But then many Authors bave pretended, that Beafts before Man's Fall were diffirent from what they are now; and that it was in order to punifh Man, that they are rendred fo reicked: but this Opinion is a meer Suppofition, of which there is not the leaft Footfeep in Holy Scripture. It is a pitiful fibterfuge to elude a real Difficulty; this at moft might be faid of the Beafts with whom Man bas a jort of Correfpondence, but not at all of the Birds, Fijlees, and Infects, robichbave no manner of relation to bini. We mult then bave recourfe to the fecond Propolition, That the Nature of Beafts bas, like that of

Man, been corrupted by Jome original Sin: Another Hypotbefis void of Foundation, and cqually inconfifent reitb Reaforn and Religion, in all the Sylems wwbich bave been bitber to efpoufed concerning the Soul of Beafts. What party are we to take? Wby, admit of my Syflem and all is explained. The Souls of Beafts are refractory Spirits, wobich bave made themfelves guilty towards Goid. The Sin in Beafts is no original Sin, it is a perfonal Crime, wobich bas corrupted and perverted their Nature in its whbole Sublance; bence all the Vices and Corruption we objerve in thene, tho' they can be no longer criminal; bccauje God by irrecoverably reprobating them, bas at the Jame time divefted thom of their Liberty.

You have here, Madam, a full View of our Author's Hypothefis, the reft being nothing but flourifh and trifle, idle Anfwers to idle Objections, upon a Suppofition that his Scheme is demonftrably certain. And is it not a choice one, to anfwer fo many Purpofes, and folve fo many Difficulties in Philofophy and Scripture, and reconcile fo many apparent Contradictions in Reafon and Religion! Does not your very Heart recoil at the monftrous Thought? Can you view it in any Iight without Abhorrence and Averfion. It was a juft Cenfure of a very great Man upon Defcartes's Philofophy, that if he were at a lofs for Reafons to oppofe his Doctrine, that Brutes were mere Macbines, this alone would be a fufficient Proof to himfelf, that it was making a Yef of fo great a part of the Creation: but this Author has exceeded him with a Vengeance! Inftead of making a Yeft, be has made them De-

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vils ; and in the Management of his Argument there is fuch a Confufion of Sentiments, fuch a Jumble of Light and Darknefs, Truth and Error, Reafon and Imagination, that one knows not where to begin, or in what Order to proceed, how to difentangle Truth from Error, to feparate the Precious from the Vile, to diftinguifn the cool Dictates of Reafon and Philofophy, from the wild Flights of Imagination and Fancy. To follow him through all his Excurfions, would be an endlefs and ufelefs Undertaking. Our beft and fhorteft way will be to examine the Goodnefs of the Foundation, and fee whether there be any Ground in Scripture or Reafon to fupport fo monftrous a Superftructure ; if not, it muft fall to the ground, and leave room for a juft and uniform Structure upon folid and lafting Foundations; which, (if you approve of this) fhall be the Subject of a fecond Letter.

In the mean time, Madam, I affure myfelf, you will be in no pain about the Event. You are too well acquainted with the Language and Genius of that lively Nation, as not to know that they have Gafconades in Philofophy, as well as in Gallantry, Romance, and Politics: You are bleffed with anUnderftanding too good to be impofed upon by vain Pretences to Reafon and Philofophy; you can eafily dintinguifh betwixt empty Sounds, and folid Senfe; betwixt the wranton Sallies of a luxuriant Fancy, and the fevere Conclufions of Truth and Jufice. You have a Firmnefs of Mind too great to be mov'd by the vain Terrors of a frighted Imagination, which are too often the Curfe of weak and little Minds. Continue, there-

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fore, your wonted Care and Affection for your innocent Domerticks; they look up to you for their Support ; from your Hand they receive the flender Provifions of Life, without murmuring or repining, which they cudeavour to repay with the fincereft Gratitude, the moft faithful Services, and unfeigned Affections that their Natures are capable of: If you are pleafed, they rejoice with you; Do you carefs them? They are tranfported with Pleafure. Do you frown? They tremble. Do you chide or punifh them? They endeavour to appeafe you by the moft humble Proftration and Submiffion. Do not many of them difcover more Gratitude, Sincerity, nay, I had almof faid Virtue, than many of their Mafters, who value themfelves upon the Refinements, upon their Reafon, the Improvements of their Underfandings, and nice Senfe of Honour? Are they wretched as well as we? Are they expofed with us to the unavoidable Calamities of Life? They are not wretched through their own faults, they are not the Authors of their own Mifery; they (as well as we) are made fiubject to V anity, but they not willingly, by a voluntary Abufe of their proper Faculties, but are by a Neceffity of Nature involv'd in the Guilt and Condemnation of their rebellious, attainted, natural Lord and Sovereign. Rom. viii. 20.

If you are not difpleafed with the Subject, tired with the Length, or difgufted with the manner of this tedious Epiftle, I fhall quickly do myfelf the Honour to fend you fome further Confiderations upon the fame Subject. I am, with great Refpect, Madam,

Your moft humble Servant.



[^0]:    * Spectacle de la Nature, Dial. :. p. Iラ5.

[^1]:    * Speciacle de la Nature, Dial. in. p. 4S, 49, 50.

[^2]:    * Spectacle de la Nature. Dial. i. p. i, S.

[^3]:    〒 Speétacle de la Narure. Diol. i. p. 19.

